

PROGRAMME OF EDUCATION

FACULTY OF COMPUTER SCIENCE AND MANAGEMENT

MAIN FIELD OF STUDY: MANAGEMENT

Area of Knowledge / Education: **SOCIAL SCIENCES**, Area of science: **ECONOMIC SCIENCES**,

Scientific disciplines: **MANAGEMENT SCIENCE, FINANCE, ECONOMICS**

EDUCATION LEVEL: 1st level, licencjat studies

FORM OF STUDIES: full-time

PROFILE: general academic

SPECIALIZATION BUSINESS MANAGEMENT (ZP)

LANGUAGE OF STUDY: Polish

Faculty Council Resolution of 29.05.2018

In effect since 1.10.2018

PROGRAMME OF STUDIES

1. Description

<i>Number of semesters: 6</i>	<i>Number ECTS points necessary to obtain qualifications: 180</i>
<i>Prerequisites (particularly for second-level studies):</i> <i>According to the resolution No. 165/9/ 2016-2020 of PWr Senate, from 29 May 2017</i>	<i>Upon completion of studies graduate obtains professional degree of: Bachelor of Science 1st level qualifications</i>
<i>Possibility of continuing studies: second-level studies (Master level)</i>	<i>Graduate profile, employability:</i> A graduate will be able to set up and organize an enterprise in any given organizational-legal form and formulate alternative solutions to typical problems regarding management and effectiveness within an organization and its individual functional groups. He/she will have the ability to identify, interpret and assess the behavior of employees and apply standard techniques of directing such behavior. He/she will cooperate and work effectively in organizational forms made up of groups and/or teams. He/she will be able to select and create simple software to solve common problems in management. These abilities qualify such a graduate for management positions in the following fields: production planning and organization, marketing, logistics, accounts,

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	human resources, organization and management, as well as the implementation of computerized systems in management. A graduate could also manage a small team of workers and, in particular, run their own enterprise.
<i>Indicate connection with University's mission and its development strategy:</i> Courses in Management are carried out within the Faculty of Computer Science and Management at Wrocław University of Science and Technology. Although, such a subject lies in the field of social science, it lies directly within the mission and development strategy of a technical university. The educational program in Management is coherent with the mission of Wrocław University of Science and Technology in the following areas: • Developing creative, critical and tolerant graduates, as studying a course in management develops these traits; • Aiming to provide high quality courses and providing the students of Management and lecturers with conditions enabling open discussion and constructive criticism; • Developing the values and tradition of higher education, wide-ranging cooperation with other universities via students	

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taking part in the Erasmus program and with employers via practical learning, carried out in the form of projects in specific organizations; • Aiming to make an impact on the national and international scene in the area of educating specialists in the field of management. The development plan of the department is in line with the strategy of the university as a whole. In particular, the department “...connects theoretical, research and specialist abilities with educational and teaching skills. The department is a leading research and teaching center in Poland and an important center on the international scene. Its teaching and research profile, together with the quality of the courses and research carried out in economics and technical science, ensures it an appropriately high position in national and international rankings”. Teaching courses in management is one of the long standing elements in the department's development strategy. In accordance with the decisions made at Wrocław University of Technology, our courses in management have an interdisciplinary nature. The program satisfies all the conditions stipulated in current legislation and is also in accordance with the National Educational Plan in the field of social science. In line with the university's strategy, in order to increase the attractiveness of our	
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courses on the educational market, our programs in management have a unique character, since they make use of the natural - in business practice - complementarity of technical science and economics, enriched with the element of computer science. In accordance with the university's strategy and the department's development plan, which indicates the need for interaction with the region and its economy, they created a framework which ensures that students have systematic contact with enterprises and other institutions during their studies. In line with the university's development strategy, the quality of our courses is being improved in all aspects. This is achieved through the development of our lecturers' research and teaching skills, as well as systematic refurbishment of the department's infrastructure, including modernization of lecture theaters, audio-visual equipment and computer laboratories. Graduates of our undergraduate studies in management are highly competitive on the employment market thanks to the specialist content of the program and the skills they develop through work practice. They are able to take up postgraduate studies and carry out basic research work.	
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2. Fields of science and scientific disciplines to which educational effects apply:

Area of Knowledge / Education: **SOCIAL SCIENCES**

Area of science: **ECONOMIC SCIENCES**

Scientific disciplines: **MANAGEMENT SCIENCE, FINANCE, ECONOMICS**

3. Concise analysis of consistency between assumed educational effects and labour market needs

The educational goals of our undergraduate studies satisfy the following needs of employers on the job market:

- The need for employees to have interdisciplinary skills (small and medium-sized enterprises);
- The ability to work independently, but also cooperate with other employees to diagnose problems, as well as propose and implement solutions in specific functional groups within a firm (medium-sized and large enterprises);
- Openness to applying novel management methods and techniques, as well as tools from information technology;
- Flexibility and openness to innovations: entering new professions – according to the website pracuj.pl - e.g. analysts of investment processes, e-business specialists (e-marketers and e-architects), project management.

„Traditional” specialists in the field of marketing, finance, human resources, production management, logistics and IT are still in high demand on the employment market. However, they must be highly skilled, both technically and socially, in order to satisfy the demands of employers described above. Our program of undergraduate studies in Management, together with the experience of the teaching staff, create the conditions for students to develop these skills through their studies.

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4. List of education modules:

4.1. List of obligatory modules:

4.1.1 List of general education modules

4.1.1.1 Liberal-managerial subjects module (min. ...3.... ECTS points):

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	PSZ1117W	Psychology	2						30	30	1	1,0	T	Z			KO	Ob.
2	SCZ2505W	Sociology	2						30	30	2	2,0	T	Z			KO	Ob.
		Total	4	0	0	0	0		60	60	3	3,0						

4.1.1.2 Foreign languages module (min. ECTS points):

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
		Total																

4.1.1.3 Sporting classes module (min. ECTS points):

No..	Course/group of courses	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷

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	code	symbol GK)						effect symbol										
		Total																

4.1.1.4 Information technologies module (min. ..4.. ECTS points):

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	IEZ1146W	Information Technology	2						30	60	2	1,0	T	Z			K	Ob.
2	IEZ1146L	Information Technology			1				15	60	2	0,5	T	Z		P	K	Ob.
		Total	2	0	1	0	0		45	120	4	1,5						

Altogether for general education modules

Total number of hours					Total number of ZZU hours	Total number of CNPS hours	Total number of ECTS points	Number of ECTS points for BK classes ¹
lec	cl	lab	pr	sem				
6	0	1	0	0	105	180	7	4,5

4.1.2 List of basic sciences modules

4.1.2.1 Mathematics module

No..	Course/group	Name of course/group of courses	Weekly number of hours	Field-of-study educational	Number of hours	Number of ECTS points	Form ² of course/group	Way ³ of crediting	Course/group of courses
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	of courses code	(denote group of courses with symbol GK)	lec	cl	lab	pr	sem	effect symbol	ZZU	CNPS	total	BK classes ¹	of courses		university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	MAT1441	Mathematics (GK)	2	2					60	270	9	2,0	T	E			PD	Ob.
2	MAZ1126W	Economical mathematics	2						30	120	4	1,0	T	E			PD	Ob.
3	MAZ1126C	Economical mathematics		1					15	60	2	0,5	T	Z		P	PD	Ob.
4	MAZ1127W	Descriptive Statistics	2						30	120	4	1,0	T	E			PD	Ob.
5	MAZ1127C	Descriptive Statistics		1					15	60	2	0,5	T	Z		P	PD	Ob.
Total			6	4	0	0	0		150	630	21	5,0						

4.1.2.2 Physics module

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	FZZ2502W	Physics of Work Environment	2						30	50	2	1,0	T	Z			PD	Ob.
2	FZZ2502C	Physics of Work Environment		1					15	30	1	0,5	T	Z		P	PD	Ob.
3	FZZ2502L	Physics of Work Environment			1				15	30	1	0,5	T	Z		P	PD	Ob.
Total			2	1	1	0	0		60	110	4	2,0						

4.1.2.3 Chemistry module

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of- study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
Total																		

Altogether for basic sciences modules:

Total number of hours	Total	Total	Total	Number of
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					number of ZZU hours	number of CNPS hours	number of ECTS points	ECTS points for BK classes ¹
lec	cl	lab	pr	sem				
8	5	1	0	0	210	740	25	7,0

4.1.3 List of main-field-of-study modules

4.1.3.1 Obligatory main-field-of-study modules

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of- study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	FBZ3128W	Computer aided financial analysis	1						15	60	2	0,5	T	Z			K	Ob
2	FBZ3128L	Computer aided financial analysis			1				15	60	2	0,5	T	Z		P	K	Ob
3	ZMZ1229W	Marketing research	2						30	60	2	1,0	T	Z			K	Ob
4	FBZ2110W	Corporate finance	2						30	90	3	1,0	T	E			K	Ob
5	FBZ2110C	Corporate finance		1					15	60	2	0,5	T	Z		P	K	Ob
6	IEZ1227W	Management Information Systems	2						30	90	3	1,0	T	Z			K	Ob
7	IEZ1227L	Management Information Systems			1				15	60	2	0,5	T	Z		P	K	Ob
8	ZMZ1230W	Logistics	1						15	30	1	0,5	T	Z			K	Ob
9	ZMZ1230C	Logistics		1					15	30	1	0,5	T	Z		P	K	Ob
10	EKZ1125W	Macroeconomics	2						30	120	4	1,0	T	E			K	Ob
11	EKZ1125C	Macroeconomics		1					15	60	2	0,5	T	Z		P	K	Ob
12	ZMZ2114W	Methods and Tools of Data Analysis	1						15	30	1	0,5	T	Z			K	Ob
13	ZMZ2114L	Methods and Tools of Data Analysis			1				15	60	2	0,5	T	Z		P	K	Ob
14	ZMZ3129W	Organizational Methods and Techniques	1						15	30	1	0,5	T	Z			K	Ob
15	ZMZ3129C	Organizational Methods and Techniques		1					15	30	1	0,5	T	Z		P	K	Ob
16	EKZ1126W	Microeconomics	2						30	120	4	1,0	T	E			K	Ob
17	EKZ1126C	Microeconomics		2					30	60	2	1,0	T	Z		P	K	Ob
18	ZMZ1117W	Organizational Science	2						30	60	2	1,0	T	Z			K	Ob
19	ZMZ1117C	Organizational Science		1					15	30	1	0,5	T	Z		P	K	Ob
20	FBZ1148W	Basics of finance	2						30	60	2	1,0	T	Z			K	Ob
21	ZMZ2113W	Basic marketing	2						30	120	4	1,0	T	E			K	Ob
22	ZMZ2113C	Basic marketing		2					30	60	2	1,0	T	Z		P	K	Ob

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23	ZMZ1116W	Fundamentals of Management	2						30	120	4	1,0	T	E			K	Ob
24	ZMZ1116C	Fundamentals of Management		2					30	60	2	1,0	T	Z		P	K	Ob
25	ZMZ1231D	Bachelor thesis				2			30	420	14	0,0	T	Z		P	K	Ob
26	ZMZ2622Q	Internship (4th lub 5th semester)							0	160	5	0,0	T	Z		P	K	Ob
27	PRZ1120W	Civil law and commercial law	2						30	60	2	1,0	T	Z			K	Ob
28	PRZ1120C	Civil law and commercial law		1					15	60	2	0,5	T	Z		P	K	Ob
29	FBZ2108W	Financial accounting	2						30	60	2	1,0	T	Z			K	Ob
30	FBZ2108C	Financial accounting		1					15	60	2	0,5	T	Z		P	K	Ob
31	ZMZ3133L	Management Training			2				30	60	2	1,0	T	Z		P	K	Ob
32	SCZ2102W	Organizational Behaviour	2						30	60	2	1,0	T	Z			K	Ob
33	SCZ2102C	Organizational Behaviour		1					15	60	2	0,5	T	Z		P	K	Ob
34	FBZ3108W	Financial Management	2						30	60	2	1,0	T	Z			K	Ob
35	FBZ3108C	Financial Management		1					15	30	1	0,5	T	Z		P	K	Ob
36	ZMZ1233W	Quality management	2						30	90	3	1,0	T	E			K	Ob
37	ZMZ1233C	Quality management		2					30	60	2	1,0	T	Z		P	K	Ob
38	ZMZ1241W	Marketing Management	1						15	30	1	0,5	T	Z			K	Ob
39	ZMZ1241C	Marketing Management		1					15	30	1	0,5	T	Z		P	K	Ob
40	ZMZ3177W	Personnel Management	2						30	60	2	1,0	T	Z			K	Ob
41	ZMZ3177C	Personnel Management		2					30	60	2	1,0	T	Z		P	K	Ob
42	ZMZ1234W	Processes Management	2						30	60	2	1,0	T	Z			K	Ob
43	ZMZ1235W	Operations Management	1						15	60	2	0,5	T	E			K	Ob
44	ZMZ1235C	Operations Management		1					15	30	1	0,5	T	Z		P	K	Ob
45	ZMZ1235L	Operations Management			1				15	30	1	0,5	T	Z		P	K	Ob
46	ZMZ1236W	Project Management	2						30	90	3	1,0	T	E			K	Ob
47	ZMZ1236C	Project Management		1					15	60	2	0,5	T	Z		P	K	Ob
Total			40	22	6	2	0		1050	3310	110	34,0						

4.1.3.2 module

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷

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[illegible]

Altogether (for main-field-of-study modules):

Total number of hours					Total number of ZZU hours	Total number of CNPS hours	Total number of ECTS points	Number of ECTS points for BK classes ¹
lec	cl	lab	pr	sem				
40	22	6	2	0	1050	3310	110	34,0

4.2 List of optional modules

4.2.1 List of general education modules

4.2.1.1 Liberal-managerial subjects modules (*min. ..3.... ECTS points*):

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	---	Social competences module					2		30	90	3	1,0	T	Z		P	KO	W
		Total	0	0	0	0	2		30	90	3	1,0						

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Social competences module

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	PSZ1142S	Effective teamwork					2		30	90	3	1,0	T	Z		P	KO	W
2	PSZ1143S	Interpersonal communication					2		30	90	3	1,0	T	Z		P	KO	W
3	PSZ1144S	Negotiation and conflict resolving					2		30	90	3	1,0	T	Z		P	KO	W
4	PSZ1145S	Tools of public examinations					2		30	90	3	1,0	T	Z		P	KO	W
Total																		

4.2.1.2 Foreign languages module (min.5..... ECTS points):

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	JZL	Foreign language B2.1		4					60	60	2	2,0	T	Z	O	P	KO	W
2	JZL	Foreign language B2.2		4					60	90	3	2,0	T	Z	O	P	KO	W
Total			0	8	0	0	0		120	150	5	4,0						

4.2.1.3 Sporting classes module (min. .0.. ECTS points):

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	WFW	Sport activities		2					30	30	0	0,0	T	Z	O	P	KO	W
Total			0	2	0	0	0		30	30	0	0,0						

¹BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students

²Traditional – enter T, remote – enter Z

³Exam – enter E, crediting – enter Z. For the group of courses – after the letter E or Z - enter in brackets the final course form (lec, cl, lab, pr, sem)

⁴University-wide course /group of courses – enter O

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

⁶KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

⁷Optional – enter W, obligatory – enter Ob

4.2.1.4 Information technologies module (min. ECTS points):

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
		Total																

Altogether for general education modules:

Total number of hours					Total number of ZZU hours	Total number of CNPS hours	Total number of ECTS points	Number of ECTS points for BK classes ¹
lec	cl	lab	pr	sem				
0	10	0	0	2	180	270	8	5,0

4.2.2 List of basic sciences modules

4.2.2.1 Mathematics module (min. ECTS points):

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷

¹BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students

²Traditional – enter T, remote – enter Z

³Exam – enter E, crediting – enter Z. For the group of courses – after the letter E or Z - enter in brackets the final course form (lec, cl, lab, pr, sem)

⁴University-wide course /group of courses – enter O

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

⁶KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

⁷Optional – enter W, obligatory – enter Ob

[illegible]

4.2.2.2 Physics module (*min. ECTS points*):

[illegible]

4.2.2.3 Chemistry module (min. ECTS points):

[illegible]

Altogether for basic sciences modules:

Total number of hours					Total number of ZZU hours	Total number of CNPS hours	Total number of ECTS points	Number of ECTS points for BK classes ¹
lec	cl	lab	pr	sem				

¹BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students²Traditional – enter T, remote – enter Z

³Exam – enter E, crediting – enter Z. For the group of courses – after the letter E or Z - enter in brackets the final course form (lec, cl, lab, pr, sem)

⁴University-wide course /group of courses – enter O

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

⁶ KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

⁷ Optional – enter W, obligatory – enter Ob

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4.2.3.1 module (min. ...1 ECTS points):

Altogether for main-field-of-study modules:

4.2.4 List of specialization modules

4.2.4.1 Specialization subjects (e.g. whole specialization) modules (min. .29... ECTS points):

¹BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students

	code	symbol GK)					educational effect symbol						of courses					
1	---	Marketing research module		2				30	90	3	1,0	T	Z			P	S	W
2	---	Diagnostic-design module				2		30	90	3	1,0	T	Z			P	S	W
3	---	Computer science module	7	2	5			210	450	15	7,0	T	Z				S	W
4	---	Economic science module	2	1				45	120	4	1,5	T	Z				S	W
5	---	Legal science module	2	2				60	120	4	2,0	T	Z				S	W
Total			11	5	7	2	0	375	510	29	12,5							

Marketing research module (min. .3... pkt ECTS):

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	ZMZ1428C	Development of marketing questionnaires		2					30	90	3	1,0	T	Z		P	S	W
2	ZMZ1429C	Consumer behavior research		2					30	90	3	1,0	T	Z		P	S	W
3	ZMZ1430C	Practical aspects of marketing research		2					30	90	3	1,0	T	Z		P	S	W
4	ZMZ1431C	Design of Marketing Research		2					30	90	3	1,0	T	Z		P	S	W
Total																		

Diagnostic-design module (min. .3... pkt ECTS):

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	IEZ3125P	Analysis and design of usable interactive systems				2			30	90	3	1,0	T	Z		P	S	W
2	ZMZ3174P	Analysis of marketing strategies in the Internet and digital media				2			30	90	3	1,0	T	Z		P	S	W
3	IEZ3133P	Multi-criteria decision analysis in the enterprise				2			30	90	3	1,0	T	Z		P	S	W
4	FBZ3117P	Economic diagnosis of a business company				2			30	90	3	1,0	T	Z		P	S	W

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³Exam – enter E, crediting – enter Z. For the group of courses – after the letter E or Z - enter in brackets the final course form (lec, cl, lab, pr, sem)

⁴University-wide course /group of courses – enter O

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

⁶KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

⁷Optional – enter W, obligatory – enter Ob

5	IEZ3127P	Ergonomic diagnosis design of work stations				2			30	90	3	1,0	T	Z		P	S	W
6	ZMZ3157P	Improvement of Marketing Activities				2			30	90	3	1,0	T	Z		P	S	W
7	ZMZ1432P	Improving the personnel function within the organization				2			30	90	3	1,0	T	Z		P	S	W
8	IEZ3132P	Improvement of organizational information systems				2			30	90	3	1,0	T	Z		P	S	W
9	EKZ3112P	Economic conditions of the development of enterprises in the EU market				2			30	90	3	1,0	T	Z		P	S	W
10	IEZ3134P	E-economy				2			30	90	3	1,0	T	Z		P	S	W
11	PSZ3110P	Interpersonal communication				2			30	90	3	1,0	T	Z		P	S	W
12	ZMZ3142P	Project Management Methods and Technics				2			30	90	3	1,0	T	Z		P	S	W
13	ZMZ3150P	Methods and techniques of management in practice				2			30	90	3	1,0	T	Z		P	S	W
14	FBZ3122P	Financial planning and DCF techniques				2			30	90	3	1,0	T	Z		P	S	W
15	ZMZ3153P	The practice of marketing research				2			30	90	3	1,0	T	Z		P	S	W
16	IEZ3135P	Problems of the computerization of enterprises - diagnosis of studies of cases				2			30	90	3	1,0	T	Z		P	S	W
17	ZMZ3205P	Entrepreneurship – initiation, establishment and conducting economic activity				2			30	90	3	1,0	T	Z		P	S	W
18	FBZ3119P	Cause and effect diagnosis of a company's financial				2			30	90	3	1,0	T	Z		P	S	W
19	EKZ3111P	Regional and local development				2			30	90	3	1,0	T	Z		P	S	W
20	FBZ3120P	Estimating the profitability of material investments				2			30	90	3	1,0	T	Z		P	S	W
21	PSZ1146P	Consumer behaviour				2			30	90	3	1,0	T	Z		P	S	W
22	ZMZ3160P	Crisis Management				2			30	90	3	1,0	T	Z		P	S	W
23	FBZ3113P	Property management				2			30	90	3	1,0	T	Z		P	S	W
24	ZMZ3144P	Change Management				2			30	90	3	1,0	T	Z		P	S	W
25	FBZ3124P	Financial analysis application for firm's management				2			30	90	3	1,0	T	Z		P	S	W
26	PSZ3112P	Application of psychology in management				2			30	90	3	1,0	T	Z		P	S	W
27	ZMZ1479P	Models of business enterprises- Diagnosis of mechanism, practices of their employment				2			30	90	3	1,0	T	Z		P	S	W
28	ZMZ1582P	Diagnosis companies for the implementation of innovations				2			30	90	3	1,0	T	Z		P	S	W
30	ZMZ1583P	Managing the process of innovation in the enterprise				2			30	90	3	1,0	T	Z		P	S	W

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³Exam – enter E, crediting – enter Z. For the group of courses – after the letter E or Z - enter in brackets the final course form (lec, cl, lab, pr, sem)

⁴University-wide course /group of courses – enter O

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

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⁷Optional – enter W, obligatory – enter Ob

31	ZMZ1584P	Capital groups—essence, specificity and operating practice				2			30	90	3	1,0	T	Z		P	S	W
		Total																

Computer science module (min. .15... pkt ECTS):

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
		Path I																
1	IEZ1178W	Data processing technology	1						15	60	2	0,5	T	Z			S	W
2	IEZ1178L	Data processing technology			2				30	60	2	1,0	T	Z		P	S	W
3	IEZ1179W	Programming applications	2						30	60	2	1,0	T	Z			S	W
4	IEZ1179L	Programming applications			2				30	60	2	1,0	T	Z		P	S	W
5	IEZ1180W	Modeling and analysis of MIS	2						30	60	2	1,0	T	Z			S	W
6	IEZ1180L	Modeling and analysis of MIS			2				30	60	2	1,0	T	Z		P	S	W
7	IEZ1181W	Software Project in Management	2						30	60	2	1,0	T	Z			S	W
8	IEZ1181L	Software Project in Management			1				15	30	1	0,5	T	Z		P	S	W
		Total							210	450	15	7,0						
1	IEZ1100W	Requirements and Quality Management in IT Projects	2						30	60	2	1,0	T	Z			S	W
2	IEZ1100C	Requirements and Quality Management in IT Projects		1					15	30	1	0,5	T	Z		P	S	W
		Path II																
1	IEZ1182W	Introduction to SQL	1						15	60	2	0,5	T	Z			S	W
2	IEZ1182L	Introduction to SQL			2				30	60	2	1,0	T	Z		P	S	W
3	IEZ1183W	Programming web applications	2						30	60	2	1,0	T	Z			S	W
4	IEZ1183L	Programming web applications			2				30	60	2	1,0	T	Z		P	S	W
5	IEZ1184W	Introduction to BPMN	2						30	60	2	1,0	T	Z			S	W
6	IEZ1184L	Introduction to BPMN			2				30	60	2	1,0	T	Z		P	S	W
7	IEZ1185W	Software Project Management	2						30	60	2	1,0	T	Z			S	W

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³Exam – enter E, crediting – enter Z. For the group of courses – after the letter E or Z - enter in brackets the final course form (lec, cl, lab, pr, sem)

⁴University-wide course /group of courses – enter O

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

⁶KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

⁷Optional – enter W, obligatory – enter Ob

8	IEZ1185L	Software Project Management			1			15	30	1	0,5	T	Z		P	S	W
		Total						210	450	15	7,0						

Economic science module (min. .4... pkt ECTS):

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	EKZ1148W	Globalization and european integration	2						30	60	2	1,0	T	Z			S	W
2	EKZ1148C	Globalization and european integration		1					15	60	2	0,5	T	Z		P	S	W
3	EKZ1192W	Effective techniques of using internet in business	2						30	60	2	1,0	T	Z			S	W
4	EKZ1192C	Effective techniques of using internet in business		1					15	60	2	0,5	T	Z		P	S	W
5	EKZ1149W	Government and Market in the Economy	2						30	60	2	1,0	T	Z			S	W
6	EKZ1149C	Government and Market in the Economy		1					15	60	2	0,5	T	Z		P	S	W
7	EKZ1147W	Market structure and their regulation	2						30	60	2	1,0	T	Z			S	W
8	EKZ1147C	Market structure and their regulation		1					15	60	2	0,5	T	Z		P	S	W
		Total																

Legal science module (min. .4... pkt ECTS):

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	PRZ1138W	Economic activities rateable	1						15	30	1	0,5	T	Z			S	W
2	PRZ1138C	Economic activities rateable		1					15	30	1	0,5	T	Z		P	S	W
3	PRZ1137W	Intellectual Property Legal Protection	1						15	30	1	0,5	T	Z			S	W
4	PRZ1137C	Intellectual Property Legal Protection		1					15	30	1	0,5	T	Z		P	S	W
5	PRZ1167W	Labou Law	1						15	30	1	0,5	T	Z			S	W
6	PRZ1167C	Labou Law		1					15	30	1	0,5	T	Z		P	S	W
7	PRZ1139W	The labor market and promoting employment	1						15	30	1	0,5	T	Z			S	W

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³Exam – enter E, crediting – enter Z. For the group of courses – after the letter E or Z - enter in brackets the final course form (lec, cl, lab, pr, sem)

⁴University-wide course /group of courses – enter O

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

⁶KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

⁷Optional – enter W, obligatory – enter Ob

8	PRZ1139C	The labor market and promoting employment		1					15	30	1	0,5	T	Z		P	S	W
9	PRZ1136W	Market consumer protection	1						15	30	1	0,5	T	Z			S	W
10	PRZ1136C	Market consumer protection		1					15	30	1	0,5	T	Z		P	S	W
Total																		

Altogether for specialization modules:

Total number of hours					Total number of ZZU hours	Total number of CNPS hours	Total number of ECTS points	Number of ECTS points for BK classes ¹
lec	cl	lab	pr	sem				
11	5	7	2	0	375	510	29	12,5

4.3 Training module (Faculty Council resolution on principles of crediting training – attachment no.3...)

Name of training			
Number of ECTS points	Number of ECTS points for BK classes ¹	Training crediting mode	Code
5	0	1. A student must present at least one of the following documents: - a report from the enterprise or institution in which the work placement occurred containing: the length of the work placement and assessment of the success of the placement: - a report from the enterprise confirming the fact that the student was employed, the length of employment and a description of the tasks carried out by the student, - a certificate witnessing a placement organized by AIESEC or other student organization of a similar nature, - a written report documenting the results of the placement. 2. Work placements are assessed by the dean (assistant dean for	ZMZ2622Q

¹BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students

²Traditional – enter T, remote – enter Z

³Exam – enter E, crediting – enter Z. For the group of courses – after the letter E or Z - enter in brackets the final course form (lec, cl, lab, pr, sem)

⁴University-wide course /group of courses – enter O

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

⁶KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

⁷Optional – enter W, obligatory – enter Ob

		academic affairs), or a person appointed by him/her, after reviewing the opinion of the student's placement supervisor and/or the documentation regarding the placement.	
Training duration	Training objective		
4 weeks	Preparing students for future professional employment, as well as developing the skills and carrying out the tasks required in a chosen functional area of an organization - in accordance with the stated goals of work practice, in particular: - experiencing the demands and environment of the workplace, - making use of the theoretical and practical abilities developed during the course in a work environment, - developing social, practical and organizational abilities and positive working habits, as well as stimulating interest in the practical problems encountered in a chosen area of organizational activity, together with the socio-cultural function of an organization. A work placement is carried out according to a program set out in agreement with the place of work and covers the following elements: a) a description of the role to be carried out, b) the relation between the work placement and the student's studies: - defining the knowledge required to carry out the work placement, which a student should be in possession of before the placement starts, - indicating the subjects from the course program which will be fundamental to the competencies required during the placement, - in cases where a work placement is carried out in the final year of a student's studies, the relationship between the placement and the student's diploma thesis should be defined, - a description of the skills, knowledge and types of conduct that a student should develop during the work placement.		

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²Traditional – enter T, remote – enter Z

³Exam – enter E, crediting – enter Z. For the group of courses – after the letter E or Z - enter in brackets the final course form (lec, cl, lab, pr, sem)

⁴University-wide courses /group of courses – enter O

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

⁶KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

⁷Optional – enter W, obligatory – enter Ob

4.4 Diploma dissertation module

Type of diploma dissertation	Licencjat / inżynier / magister / magister inżynier	
Number of diploma dissertation semesters	Number of ECTS points	Code
2	1 14	ZMZ3206S - Diploma seminar ZMZ1231D - Bachelor thesis
Character of diploma dissertation		
Literature survey, project, computer program, etc.		
Number of BK ¹ ECTS points	15	

5. Ways of verifying assumed educational effects

Type of classes	Ways of verifying assumed educational effects
lecture	Examination or test - multiple choice questions with single or multiple answers; open questions
problems classes	Test (multiple choice and/or open questions); written reports in the form of presentations - literature and case studies, diagnostic and/or project reports - empirical research in real organizations, presenting the opinions of representatives of such organizations; spoken presentations using modern presentation technology
laboratory	Technical report or test
project	Written report documenting the diagnosis and solution of a problem, spoken presentation of the project with questions.
seminar	Choice and formulation of a problem/theme; activeness in discussions, written report in an academic style, essay, “mini”-monograph. Spoken presentations using modern presentation technology

¹BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students

²Traditional – enter T, remote – enter Z

³Exam – enter E, crediting – enter Z. For the group of courses – after the letter E or Z - enter in brackets the final course form (lec, cl, lab, pr, sem)

⁴University-wide course /group of courses – enter O

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

⁶KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

⁷Optional – enter W, obligatory – enter Ob

work placement	Written report on the work practice given by the student's placement supervisor, confirmation of the completion and nature of the work placement by the employer
diploma thesis	Written report satisfying the current regulations for diploma theses, assessed by the supervisor and a reviewer using an appropriate form.
diploma examination	Spoken presentation of the results of the diploma thesis, answers to questions given by the examination committee, spoken answers to randomly chosen questions from the set appearing in the program of studies.

6. Total number of ECTS points, which student has to obtain from classes requiring direct academic teacher-student contact (enter total of ECTS points for courses/groups of courses denoted with code BK¹)
...180.... ECTS

7. Total number of ECTS points, which student has to obtain from basic sciences classes

Number of ECTS points for obligatory subjects	25
Number of ECTS points for optional subjects	0
Total number of ECTS points	25

8. Total number of ECTS points, which student has to obtain from practical classes, including laboratory classes (enter total number of ECTS points for courses/group of courses denoted with code P)

Number of ECTS points for obligatory subjects	71
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¹BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students

²Traditional – enter T, remote – enter Z

³Exam – enter E, crediting – enter Z. For the group of courses – after the letter E or Z - enter in brackets the final course form (lec, cl, lab, pr, sem)

⁴University-wide course /group of courses – enter O

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

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⁷Optional – enter W, obligatory – enter Ob

Number of ECTS points for optional subjects	30
Total number of ECTS points	101

9. Minimum number of ECTS points, which student has to obtain doing education modules offered as part of university-wide classes or other main field of study (enter number of ECTS points for courses/groups of courses denoted with code OG)

...11.... ECTS points

10. Total number of ECTS points, which student may obtain doing optional modules (min. 30% of total number of ECTS points)

...57.... ECTS points

11. Range of diploma dissertation

Character of effect/ issue	EXAM QUESTION
K1_ZARZ_W01	1. Origin and evolution of organizational sciences 2. Economic sciences – scope and relation to social and technical sciences.
K1_ZARZ_W02	3. Types of economic systems and their elements.
K1_ZARZ_W03	4. Indexes to comparing the economies and their usefulness in making decisions on the enterprises level. 5. The Program of the Single European Market and their influence on the enterprises activities. 6. Market and its element according to classical and liberal economics. 7. Market structures - perfect competition, monopolistic competition, oligopoly, monopoly 8. Theory of the regulation actions by government (e.g. the theory of market failures).
K1_ZARZ_W04	9. The being and features of the commercial law. Subjects of the commercial law. 10. Protection of rights exclusive up to the intellectual property in the market operations of the enterprise. 11. Legislative protection of competition and of consumers. 12. Creating and the liquidation of enterprises. The bankruptcy proceedings and rectification proceedings. 13. Intellectual property - the being, elements, the licence agreement as the instrument of the commercialization of the intellectual property.

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K1_ZARZ_W05	14. Organization life-cycle – phases and its determinants 15. Elements of organization – people, technology, processes, structures 16. Legal, organizational and ownership forms of enterprises. 17. Organizational resources, potential and assets
K1_ZARZ_W06	18. Legal determinants of the enterprise operations in the areas of employment, insurance, environmental protection, agreements with contracting parties, etc. 19. Social, economic and political determinants of organizational behavior – national and global dimension. 20. Enterprise's cooperation with other entities: the essence and forms of cooperation, corporate and concentration forms.
K1_ZARZ_W07	21. Issue, aims and functions of management 22. Management methods and techniques - classification criteria, the application examples of selected methods or techniques. 23. Management as information and decision-making process
K1_ZARZ_W08	24. Factors influencing organizational structures 25. Organizational structure – determinants and directions of evolution
K1_ZARZ_W09	26. Definition and generic classification of processes. Identifying, mapping, designing and implementing the process. 27. The functional and process organization of an enterprise. 28. Models and standardization of processes. Methods of processes measurement and evaluation.
K1_ZARZ_W10	29. Aims, phases and tools of marketing management. 30. Marketing-mix as concept of market influences 31. Scope and function of marketing research, its procedures and methods.
K1_ZARZ_W11	32. Financial analysis in problem approach - evaluation of liquidity, profitability analysis, assets and equity structure 33. Capital investment – material and cash investments. Methods of investments productivity evaluation. 34. Company assets and capitals – balance sheet. Revenues and expenditures – financial result. Cash flow statement. 35. Accounts functioning. Chart of accounts. 36. Sources and rules of financing firm activity.
K1_ZARZ_W12	37. Periodic evaluation of employees and their professional development – goals, principles, procedures. 38. Job evaluation (essence, aims, methods) and wages (wage tables, wage forms, wage functions). 39. Principles of creating and functioning the teams in organizations and the factors influencing on their efficiency.

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K1_ZARZ_W13	40. Goals and strategies of production management in the market economy. 41. Systems and processes of production and services – production management methods.
K1_ZARZ_W14	42. The essence of logistics, its mainstays and the levels of logistics processes integration. 43. Logistics processes management. Logistics processes planning and organization in an organization.
K1_ZARZ_W15	44. Goals and stages of DMAIC methodology (Define – Measure – Analyze – Improve – Control) used in the Six Sigma approach. 45. Techniques and methods of quality improvement. Quality costs. 46. Total Quality Management (TQM) and quality management systems according to ISO 9000 norms – basic differences
K1_ZARZ_W16	47. Methods of diagnosing and improving the enterprise's activity - application examples in various functional areas. 48. Evaluation and choice of organizational problem best solution - main methods
K1_ZARZ_W17	49. Leading as goals' attaining. Influence of motivation on human behaviour. 50. The essence of motivation and motivating. Theories of motivation and their characteristics. 51. Social integration processes in organization.
K1_ZARZ_W18	52. Interpersonal conflicts – withing and between groups. Group cohesion. 53. Organizational culture and organizational behavior ethics. 54. Sources and manifestations of power in organization. Authority, influence, coalitions. Leadership.
K1_ZARZ_W19	55. Forces that generate changes in the enterprise - change management models. 56. Process of implementing changes in the organization - the sources of change resistance and ways to neutralize them.
K1_ZARZ_W20	57. Project initiation and definition. Project feasibility evaluation. Project risk analysis. Project structure. 58. The essence of project management and its role in management. The essence and types of projects. Project life cycle. 59. Project realization and resources planning. Project budgeting. Project realization steering. Project team organization.
K1_ZARZ_W21	60. Meaning and types of entrepreneurship, background of initiation and development. 61. Meaning and types of innovation, organisations and institutions supporting the diffusion of innovation.
K1_ZARZ_W22	62. The influence of physical environment factors on a man at work.
K1_ZARZ_W23	63. Mathematical methods for management – examples of applications
K1_ZARZ_W24	64. Multicriterial analysis in decision-making – examples of problems and methods of problem solving 65. Intelligent management systems – general characteristics, examples of application.
K1_ZARZ_W25	66. Analysis and forecasting of development tendency – examples of applications. 67. Classical model of linear regression – examples of applications in management

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K1_ZARZ_W26	68. Process of implementation and exploitation of management information systems. 69. Management information systems design: assumptions, phases, rules and tools. 70. Assumptions and aims of an enterprise informatization strategy.
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12. Requirements concerning deadlines for crediting courses/groups of courses for all courses in particular modules

No.	Course code	Name of course	Crediting by deadline of... (number of semester)

13. Plan of studies (attachment no. ...5...)

Approved by faculty student government legislative body:

.....
Date, name and surname, signature of student representative

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.....
Date, Dean's signature

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